#### INTERNATIONAL SEARCH REPORT

Inter nal Application No PCT/DK2004/000406

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/56 C12N9/34

C12N1/15

C12P19/20

A61K38/47

Relevant to claim No.

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P A61K

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL, WPI Data, PAJ, BIOSIS, FSTA, CHEM ABS Data

Citation of document, with indication, where appropriate, of the relevant passages

X NAGASAKA, YOSUKE ET AL: glucoamylase from Cortici JOURNAL OF APPLIED GLYCOS vol. 46, no. 2, 1999, pag XP008027339	um rolfsii"   CIENCE,	1-11, 20-29
the whole document  US 6 558 920 B1 (HATA YOJ 6 May 2003 (2003-05-06) column 1, paragraph 65 - paragraph 16		1-11, 20-29
Further documents are listed in the continuation of box C		
<ul> <li>Special categories of cited documents</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filling date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filling date but later than the priority date claimed</li> </ul>	a document member of the service person	claimed invention of the considered to counert is taken alone claimed invention invention invention invention and the counert to such docupous to a person skilled it family
Date of the actual completion of the international search	Date of mailing of the international se	earch report
20 December 2004	1 8. 01. 2005	
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan NL – 2280 HV Rijswijk  Tel (+31–70) 340–2040, Tx. 31 651 epo nl, Fax (+31–70) 340–3016	Authonzed officer Perez, C	
Form PCT/ISA/210 (second sheet) (January 2004)		page 1 of 2

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Inter nal Application No PCT/DK2004/000406

C.(Continue	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	NAGASAKA Y ET AL: "Cloning of Corticium rolfsii glucoamylase cDNA and its expression in Saccharomyces cerevisiae" APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol. 44, no. 3-4, 1995, pages 451-458, XP002269423 ISSN: 0175-7598 cited in the application the whole document -& DATABASE EMBL 'Online! 10 February 1999 (1999-02-10), NAGASAKA Y ET AL: "Corticium rolfsii mRNA for glucoamylase G2, complete cds." XP002269424 Database accession no. D49448	1-11, 20-29			
A	US 3 912 590 A (SLOTT STEEN ET AL) 14 October 1975 (1975-10-14) cited in the application abstract; example IV	12-19			

# INTERNATIONAL SEARCH REPORT

ational application No. PCT/DK2004/000406

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  1-19, 20-29
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11 and 20-29

A filamentous fungal host cell comprising a polynucleotide encoding a polypeptide having glucoamylase activity, said polypeptide relating to amino acid sequence SEQ ID NO: 2. A method of recombinantly producing a glucoamylase, said method comprising the step of expressing a polynucleotide encoding a polypeptide having glucoamylase activity in a filamentous fungal host cell, wherein the polypeptide relates to amino acid sequence SEQ ID NO: 2.

2. claims: 12-19

A method for saccharifying starch comprising the treatment of the liquefied starch with a polypeptide having glucoamylase activity, wherein the polypeptide relates to amino acid sequence SEQ ID NO: 2, whereby a % dextrose value of at least 96% is achieved at 30% w/w substrate concentration at 60°C.

3. claims: 30-38

Use of the polypeptide related to SEQ ID  $N^{\circ}2$  for starch conversion process

4. claim: 39

Use of the polypeptide related to SEQ ID  $N^{\circ}2$  for compost and biological waste treatment

5. claim: 40

Use of the polypeptide related to SEQ ID N°2 for purification of plant extracts for food additives

6. claim: 41

Use of the polypeptide related to SEQ ID  $N^{\circ}2$  for cosmetics and pharmaceuticals

7. claim: 42

Use of the polypeptide related to SEQ ID  $N^{\circ}2$  in the baking industry

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210	
8. claim: 43	
Use of the polypeptide related to SEQ ID N°2 in the production of pet food	

# INTERNATIONAL SEARON REPORT

\*Intermation on patent family members

Inte nal Application No
PCT/DK2004/000406

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6558920	B1	06-05-2003	JP	2001046078 A	20-02-2001
US 3912590 A	14-10-1975	JP JP	1258204 C 49100240 A	29-03-1985 21-09-1974	
			JP	57002317 B	14-01-1982